

**IN THE CLAIMS:**

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please amend the claims as noted below.

**Listing of the Claims**

**1. (Currently Amended)** A gene detecting chip to detect and to analyze at least one of genes, single base substitution SNP or point mutation of genes, the gene detecting chip comprising:

a body having a depression;

a cover over said depression;

an enclosed internal space formed between said depression and said cover to receive gene samples;

a plurality of measuring electrodes having one of a plurality of PCR products or oligonucleotides immobilized on one of said plurality of measuring electrodes, configured said plurality of measuring electrodes operatively connected at a bottom of said space sufficient to measure an electric current variation between the measuring electrodes and a common electrode corresponding to hybridization with PCR products or oligonucleotides and sufficient to detect point mutations, the measuring electrodes formed at a bottom of said space,

~~wherein one of a plurality of PCR products or oligonucleotides is immobilized on one of said plurality of measuring electrodes and said electric current variation corresponding to hybridization with said PCR products or oligonucleotides is sufficient to detect point mutations,~~

wherein the common electrode is a counter electrode to said measuring electrodes arranged in the space part; and

wherein, when a voltage is applied between said common electrode and said measuring electrodes, the electric current variation between said common electrode and said measuring electrode can be detected.

**2. (Currently Amended)** The gene detecting chip according to claim 1, wherein two opposing surfaces of each of said body and said upper-cover each have an injection hole extending to the depression of the body.

3. (Currently Amended) The gene detecting chip according to claim 1, wherein said upper-cover is transparent.

4. (Previously presented) The gene detecting chip according to claim 1, wherein said measuring electrodes form an electrode array.

5. (Previously presented) The gene detecting chip according to claim 1, wherein said common electrode is arranged so as not to contact the measuring electrodes.

6. (Previously presented) The gene detecting chip according to claim 1, wherein PCR products or oligonucleotides consisting of different genetic sequences are immobilized on each of said measuring electrodes.

7. (Previously presented) The gene detecting chip according to claim 1, wherein each of said plurality of measuring electrodes is combined with each of a plurality of wirings; and

wherein said wirings are respectively connected to said measuring electrodes on a one to one basis, or form a matrix structure as a grid wiring consisting of a plurality of conductors fixed in rows and lines to connect each of said measuring electrodes arranged in the array with their respective nearest conductor of the conductors fixed in rows and lines.

8. (Previously presented) The detecting chip according to claim 1 or claim 2, wherein said detecting chip is configured to be inserted into and removed from a measuring apparatus capable of detecting an electric current, and is configured to be electrically connected to said measuring apparatus.

9. (Previously presented) A gene detecting chip according to any one of claims 1 to 3, wherein said detecting chip forms part of a card or a cassette.

10. (Cancelled)

11. (Previously presented) The gene detecting apparatus according to claim 1, wherein the temperature of said detecting chip is changed by using peltier devices to control temperature conditions for hybridization.

12. (Withdrawn)

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13.-36. (Cancelled)

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